



LED Robot Ornament

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TOOLS:

- [Hot Glue gun & hot glue \(1\)](#)
- [Pencil or pen \(1\)](#)
- [Pliers \(1\)](#)
- [Utility knife \(1\)](#)



PARTS:

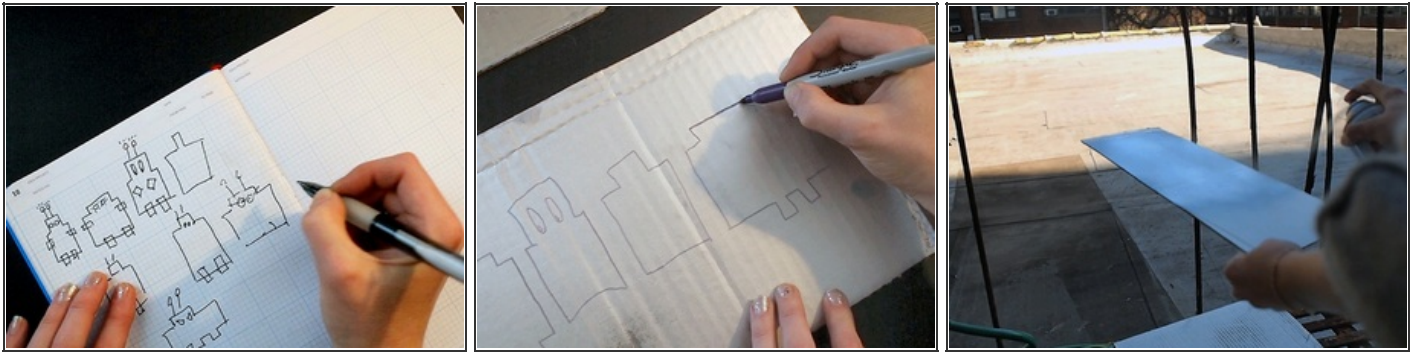
- [Cardboard \(1\)](#)
- [Spray paint \(1\)](#)
silver
- [LED Sewing Kit \(1\)](#)
or two LEDs and a coin cell battery with holder
- [Yarn, string, or other cord \(1\)](#)

SUMMARY

Crafting under pressure is irresistible. This year the Craftzine gals suggested an ornament swap-- 12 days before Christmas. With a lot on our plates we all agreed to make time for crafting eight handmade ornaments each, and the deadline made it even more intense.

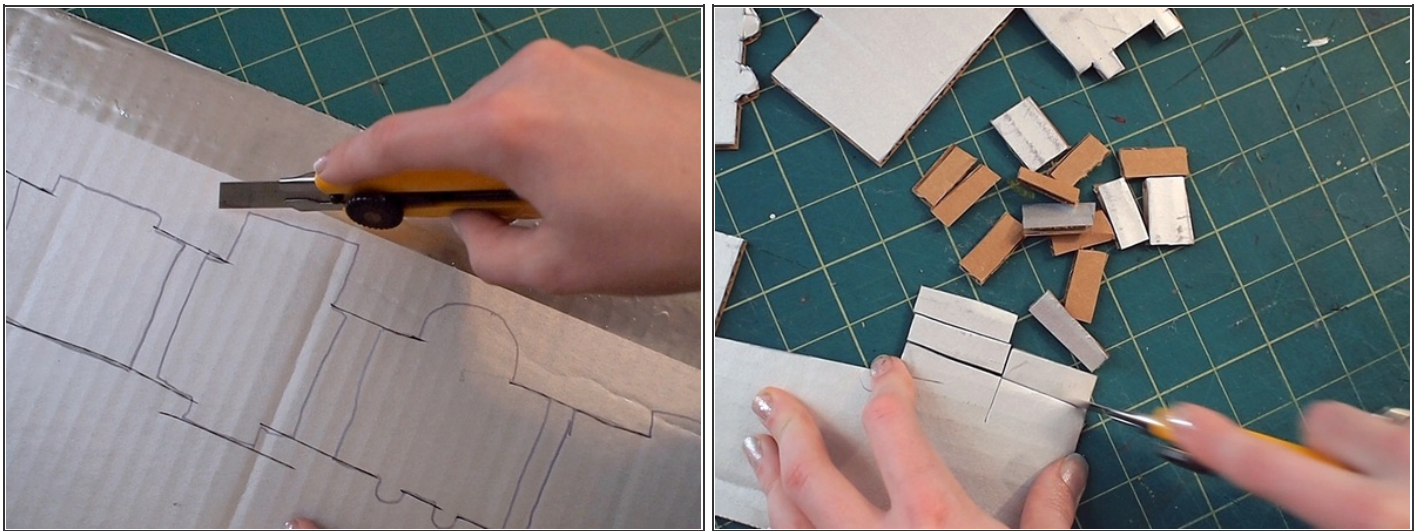
Cheers to speed crafting!

Step 1 — LED Robot Ornament



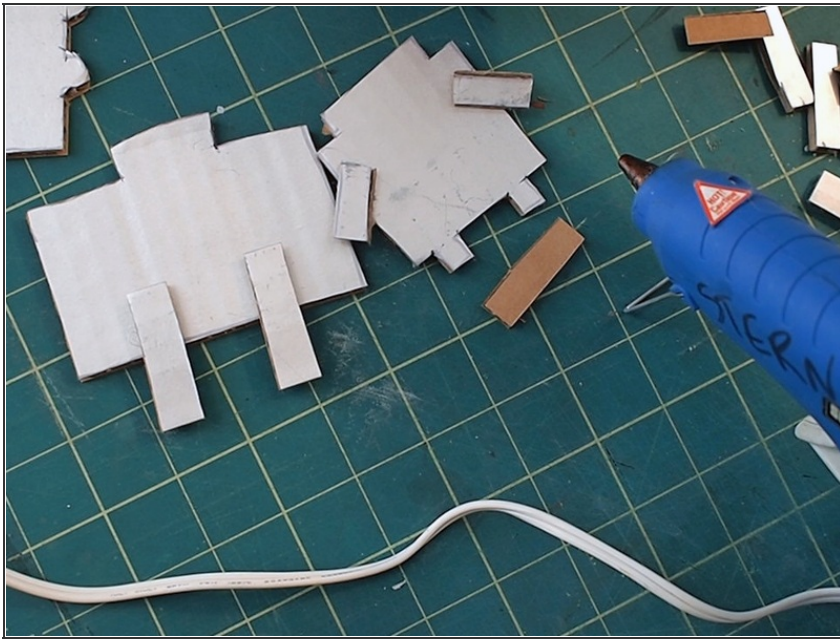
- Spray paint some scrap cardboard — I chose silver.
- Sketch out your robot designs, either in a notebook first or directly on the cardboard.

Step 2



- Cut out your robots' bodies.
- Cut legs and arms from small strips of cardboard.

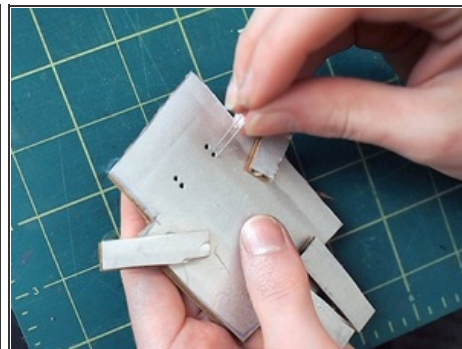
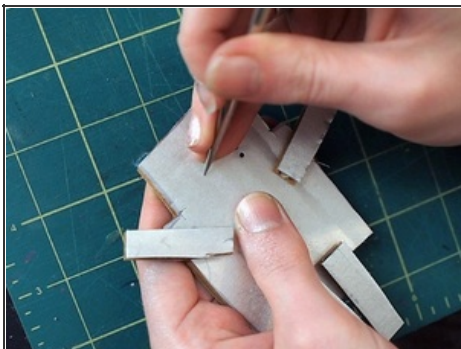
Step 3



- Glue on arms and legs.
- Keep a bowl of ice water nearby when using a hot glue gun.

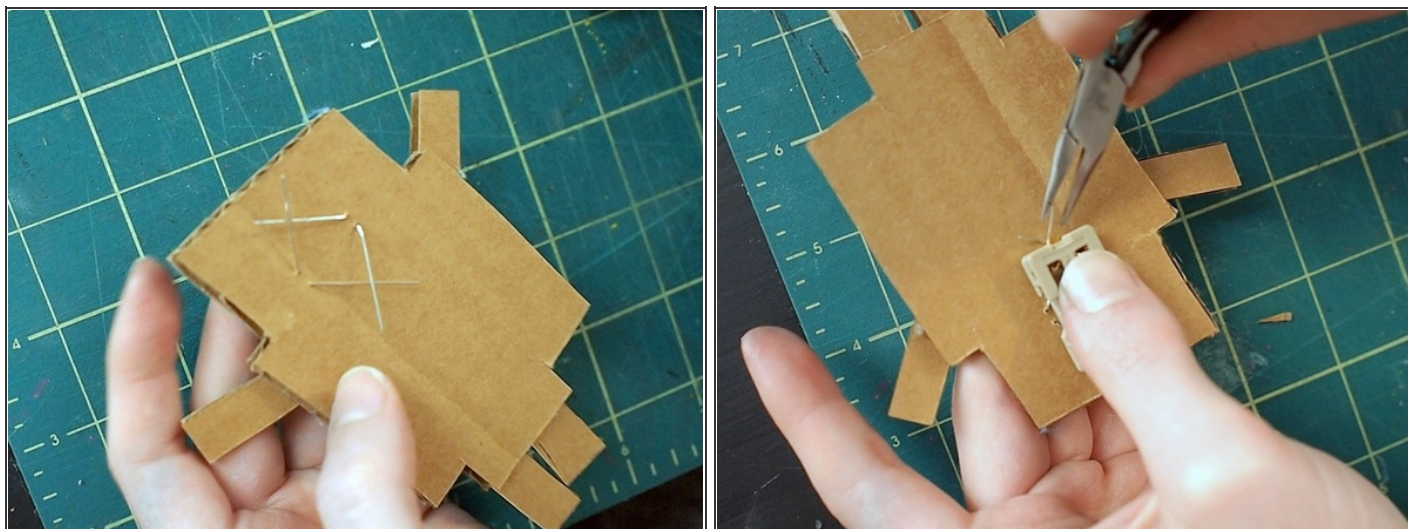


Step 4



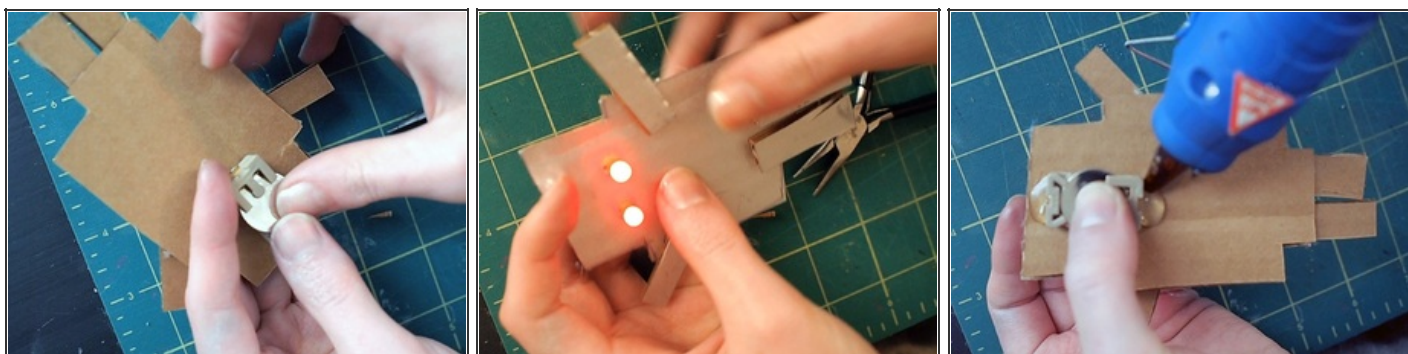
- Pierce two holes for each LED with an awl.
- Feed the LED legs through the holes, minding the polarity. The long (+) leads should both be facing the same way.

Step 5



- On the back, twist the two long leads (+) together, and twist the two short leads (-) together. This is called wiring the LEDs in parallel.
- Look for the (-) symbol near one side of the battery holder. Stack the holder on top of the LED leads matching + to + and - to -.
- The circuit is the same as my [LED shoe clips project](#) as well as my [firefly embroidery project](#).

Step 6



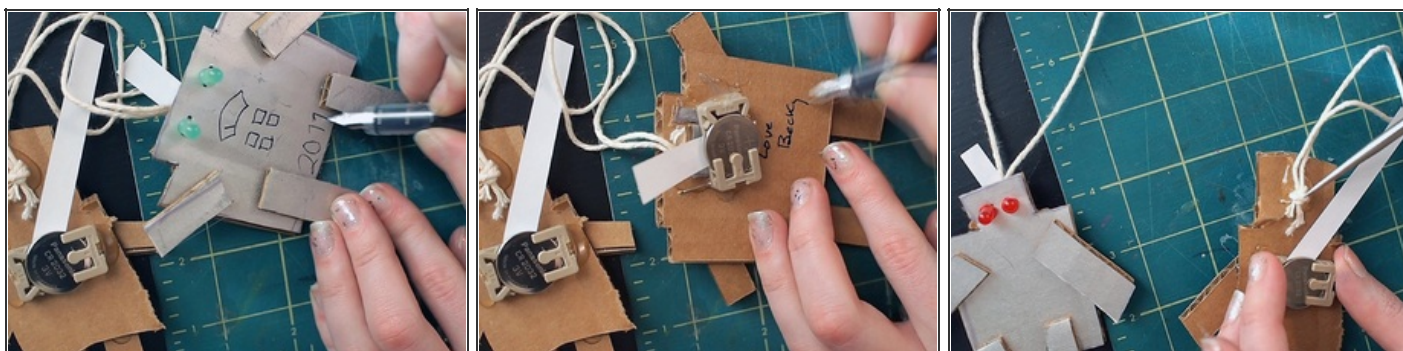
- Use pliers to twist the LED leads around the battery holder legs, and insert a battery to confirm the circuit illuminates the robot's eyes.
- Use hot glue to secure the battery holder while it's still on.

Step 7



- Slide a strip of paper between the battery and the holder to provide a pull-to-start tab.
- Insert the battery in the holder, pinching the paper strip between.
- Write "pull here" on the paper strip.

Step 8



- Draw buttons, dials, the current year, or any other decorations on your robot.
- Don't forget to sign the back!
- Glue on a loop of string for hanging.
- Merry Xmas!

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